## SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Patricia Gordon

Nick M. Carter

Steven T. Brentano Philip W. Hammond

(ii) TITLE OF INVENTION: NUCLEIC ACID PROBES

COMPLEMENTARY TO HUMAN
PAPILLOMAVIRUS NUCLEIC
ACID AND RELATED METHODS

AND KITS

(iii) NUMBER OF SEQUENCES: 128

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Lyon & Lyon

(B) STREET: 633 West Fifth Street

Suite 4700

(C) CITY: Los Angeles

(D) STATE: California

(E) COUNTRY: U.S.A.

(F) ZIP: 90071-2066

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

storage

(B) COMPUTER: IBM Compatible

(C) OPERATING SYSTEM: IBM P.C. DOS 6.1

(D) SOFTWARE: Word Perfect 6.1

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 08/749,955

(B) FILING DATE: November 14, 1996

(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

Prior applications total, including application described below:

1

(A) APPLICATION NUMBER:

60/006,854

(B) FILING DATE:

November 15, 1995

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Heber, Sheldon O.

(B) REGISTRATION NUMBER: 38,179

(C) REFERENCE/DOCKET NUMBER: 223/105

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (213) 489-1600

(B) TELEFAX: (213) 955-0440

(C) TELEX: 67-3510

- (2) INFORMATION FOR SEQ ID NO:1:
  - (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 28 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

GACATTATTG TTATAGTTTG TATGGAAC

28

	(i)	SEQU	ENCE CHARACTERIST	ICS:		
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	nucleic acid	·	
,	(xi)	SEQU	ENCE DESCRIPTION:	SEQ ID NO:2:		
GTTC	CATAC	A AAC	TATAACA ATAATGTC			28
				•		
(2)	INFO	RMATI	ON FOR SEQ ID NO:	3:		
	(i)	SEQU	ENCE CHARACTERIST	ICS:		
		(B) (C)		_		
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID NO:3:	-	
GACA	, UUAUU	G UUA	UAGUUUG UAUGGAAC			28
(2)	INFO	RMATI	ON FOR SEQ ID NO:	4:		
, .	(i)	SEQU	ENCE CHARACTERIST	ICS:		
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	28 base pairs nucleic acid single linear		
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID NO:4:		
GUUC	CAUAC	A AAC	UAUAACA AUAAUGUC			28

(2) INFORMATION FOR SEQ ID NO:2:

	(i)	SEQU	ENCE CHA	RACTERIS'	TICS:			
		(B) (C)	LENGTH: TYPE: STRANDE TOPOLOG	DNESS:	28 base nucleic single linear	_		n nga sa
	(xi)	SEQ	UENCE DE	SCRIPTIO	N: SEQ ID	NO:5:		
GAAC	AGCAA'	T ACA	ACAAACC (	GTTGTGTG			<b>V</b>	28
(2)	INFO	RMATI	ON FOR S	EQ ID NO	:6:		:	
	(i)	SEQU	ENCE CHA	RACTERIS	TICS:			
		(B)	LENGTH: TYPE: STRANDE TOPOLOG	DNESS:	28 base nucleic single linear		•	
	(xi)	SEQ	UENCE DE	SCRIPTIO	N: SEQ ID	NO:6:		
CACA	CAACG	G TTT	GTTGTAT	TGCTGTTC				28
(2)	INFO	RMATI	ON FOR S	EQ ID NO	:7:			
	(i)	SEQU	ENCE CHA	RACTÉRIS	TICS:			
		(B) (C)	LENGTH: TYPE: STRANDE TOPOLOG	DNESS:	28 base nucleic single linear	_		

(2) INFORMATION FOR SEQ ID NO:5:

	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:7:	1
GAACA	AGCAAU	J ACA	ACAAACC GUUGUGUG			28
	٠				·	
(2)	INFOR	ITAMS	ON FOR SEQ ID NO:	8:	1	
	(i)	SEQU	ENCE CHARACTERIST	ICS:	e e	
		(B) (C)			-	,
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:8:	
CACAC	CAACGO	טטט	GUUGUAU UGCUGUUC			28
	٠		· · · · · · · · · · · · · · · ·			
(2)	INFO	ITAMS	ON FOR SEQ ID NO:	9:		
	(i)	SEQU	ENCE CHARACTERIST	ICS:		
		(B) (C)		27 base nucleic single linear	_	
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:9:	
GACG	rgagg:	r gta	TTAACTG TCAAAAG			27
(2)	INFO	RMATI	ON FOR SEQ ID NO:	10:		
	(i)	SEQU	ENCE CHARACTERIST	ICS:	•	
C		(A) (B) (C)	LENGTH: TYPE: STRANDEDNESS:	27 base nucleic single	-	

	(xi)	SEQ	UENCE	DESCRIPTI	ON: SEQ ID	NO:10:		
CTTT	TGACA	G TTA	ATACA	CC TCACGTO	· •			27
					•			
>							•	
(2)	INFO	RMATI	ON FO	R SEQ ID N	Ю:11:			
	(i)	SEQU	ENCE (	CHARACTERI	STICS:			
		(B) (C)		: NDEDNESS:	27 base nucleic single linear	_	·	
	(xi)	SEQ	UENCE	DESCRIPTI	ON: SEQ ID	NO:11:		
GACG	UGAGG	U GUA	UUAACI	UG UCAAAAG	;			27
							•	
(2)	INFO	RMATI	ON FO	R SEQ ID N	10:12:			
	(i)	SEQU	ENCE (	CHARACTERI	STICS:			
		(C)	TYPE STRAI		27 base nucleic single linear	_		
	(xi)	SEQ	UENCE	DESCRIPTI	ON: SEQ ID	NO:12:		
CUUU	UGACA	G UUA	AUACA	CC UCACGUO				27
(2)	INFO	RMATI	ON FO	R SEQ ID N	Ю:13:			
	(i)	SEQU	ENCE (	CHARACTERI	STICS:			
		(A) (B) (C) (D)		: NDEDNESS:	27 base nucleic single linear	_		

	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:13:			
CCAT	GCATG	A TTA	CAGCTGG GTTTCTC					27
		,						
(2)	INFO	RMATI	ON FOR SEQ ID NO:	14:	•			
	(i)	SEQU	ENCE CHARACTERIST	CICS:				
. •		(B) (C)			_			
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:14:	ŀ		
GAGA	AACCC	A GCT	GTAATCA TGCATGG			,		27
		·				`		
(2)	INFO	RMATI	ON FOR SEQ ID NO:	15:				
	(i)	SEQU	ENCE CHARACTERIST	CICS:				
		(B)	STRANDEDNESS:	nucleic			,	
•	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:15:			
CCAU	GCAUG	A UUA	CAGCUGG GUUUCUC					27
(2)	INFO	RMATI	ON FOR SEQ ID NO:	16:				
-	(i)	SEQU	ENCE CHARACTERIST	ics:	• •			
		(A) (B) (C) (D)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	27 base nucleic single linear	_			

	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:16:		
GAGA	AACCCA	A GCU	GUAAUCA UGCAUGG				27
						. *	
(2)	INFO	TAMS	ON FOR SEQ ID NO:	17:			
	(i)	SEQU	ENCE CHARACTERIST	ICS:			
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	26 base nucleic single linear	_		
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:17:		
TACG	rgttc:	r TGA'	TGATCTC ACGTCG			•	26
(2)	INFO	RMATI	ON FOR SEQ ID NO:	18:			
	(i)	SEQU	ENCE CHARACTERIST	ICS:			
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	26 base nucleic single linear			
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:18:	1	
CGAC	GTGAG	A TCA	TCAAGAA CACGTA	-		I	26
(2)	INFO	RMATI	ON FOR SEQ ID NO:	19:			
	(i)		ENCE CHARACTERIST				
	( + )		ENCE CHARACTERIS!				
		(A) (B) (C) (D)		26 base nucleic single linear	_		

	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:19:	
UACG	ບູດກຸດເ	J UGA	UGAUCUC ACGUCG			26
			· v			
(2)	INFO	RMATI	ON FOR SEQ ID NO:	20:		
	(i)	SEQU	ENCE CHARACTERIST	'ICS:		
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	nucleic single	<del>-</del>	
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:20:	
CGAC	GUGAG	A UCA	UCAAGAA CACGUA			26
(2)	INFO	RMATI	ON FOR SEQ ID NO:	21:		
	(i)	SEQU	ENCE CHARACTERIST	'ICS:		
		(B) (C)				
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:21:	
GTGT	GTACT	G CAA	GCAACAG TTACTG			26
(2)	INFO	RMATI	ON FOR SEQ ID NO:	22:		
	(i)	SEQU	ENCE CHARACTERIST	'ICS:		
		(A) (B) (C)	LENGTH: TYPE: STRANDEDNESS:	26 base nucleic single	<del></del>	

	(xi)	SEQUEN	CE DESCRIPTION	: SEQ ID	NO:22:	1	
CAGTA	ACTGT	TGCTTG	CAGT ACACAC			. 1	26
(2)	INFOR	MATION 1	FOR SEQ ID NO:	23:			
,	(i)	SEQUENCI	E CHARACTERIST	ICS:			
				_			
	(xi)	SEQUEN	CE DESCRIPTION	: SEQ ID	NO:23:		
GUGU	GUACUG	CAAGCA	ACAG UUACUG		•		26
(2)	INFOR	MATION 1	FOR SEQ ID NO:	24:			
	(i)	SEQUENCI	E CHARACTERIST	ICS:			
		(B) TYI	NGTH: PE: RANDEDNESS: POLOGY:	nucleic	_		
	(xi)	SEQUEN	CE DESCRIPTION	: SEQ ID	NO:24:		. *
CAGU	AACUGU	UGCUUG	CAGU ACACAC				26
(2)	INFOR	MATION 1	FOR SEQ ID NO:	25:			
	(i)	SEQUENCI	E CHARACTERIST	ICS:			•
		(B) TYI (C) STI	NGTH: PE: RANDEDNESS:	25 base nucleic single	-		

	(xi)	SEQ	UENCE	DESCRIPTIO	ON: SEQ ID	NO:25:		
CTTT	TGACA	G TTA	ATACAC	CC TCACG				25
(2)	INFO	RMATI	ON FOR	SEQ ID NO	0:26:			
	(i)	SEQU	ENCE C	CHARACTERIS	STICS:			
•		(B) (C)			_			
	(xi)	SEQ	UENCE	DESCRIPTION	ON: SEQ ID	NO:26:		
CGTG	AGGTG	T ATT	'AACTG'I	C AAAAG			1	25
(2)	INFO	RMATI	ON FOR	R SEQ ID NO	):27:			
	(i)	SEQU	ENCE C	CHARACTERIS	STICS:			
		(B) (C)			25 base nucleic single linear	_		
	(xi)	SEQ	UENCE	DESCRIPTION	ON: SEQ ID	NO:27:		
cuuu	UGACA	g uua	AUACAC	CC UCACG				<b>25</b>
(2)	INFO	RMATI	ON FOR	R SEQ ID NO	0:28:			
	(i)	SEQU	ENCE C	; CHARACTERIS	STICS:		•	
		(A) (B) (C) (D)		: NDEDNESS:	25 base nucleic single linear	_		

	(xi)	SEQ	UENCE	DESCRIPTI	ON:	SEQ II	NO:28:			
CGUG	AGGUGI	UUA U	AACUGU	IC AAAAG						25
(2)	TNEO	рматт	ON FOR	SEQ ID N	ن. ن	a .				
(2)	1141-01	MI I	ON POR	C DEQ ID I	10.2.	•				
	(i)	SEQU	ENCE C	CHARACTERI	ISTI	CS:				
		(B) (C)			1	nucleio	e pairs cacid	·		
	(xi)	SEQ	UENCE	DESCRIPTI	ON:	SEQ II	NO:29:			
AAAG'	TCATA!	T ACC	TCACGI	C GC				-		22
(2)	INFO	RMATI	ON FOR	SEQ ID N	VO:30	O:				
	(i)	SEQU	ENCE C	CHARACTERI	ISTI	CS:				
		(B) (C)			1	nucleic	pairs acid			
	(xi)	SEQ	UENCE	DESCRIPTI	ON:	SEQ II	NO:30:			
GCGA	CGTGA	g GTA	TATGAC	T TT						22
(2)	INFO	RMATI	ON FOR	SEQ ID N	10:3	L:				
	(i)	SEQU	ENCE C	HARACTERI	ISTIC	ĊS:	·			
		(A) (B) (C) (D)	STRAN	DEDNESS:	1	22 base nucleic single linear	_			

•	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:31:	
AAAGI	UCAUA	J ACC	UCACGUC GC			22
						••
(2)	INFO	RMATI	ON FOR SEQ ID NO:	32:		
	(i)	SEQU	ENCE CHARACTERIST	CICS:		
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	single		
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:32:	•
GCGA	CGUGA	g gua	UAUGACU UU			22
(2)	INFO	RMATI	ON FOR SEQ ID NO:	33:		
	(i)	SEQU	ENCE CHARACTERIST	rics:		
	:	(B) (C)	TYPE: STRANDEDNESS:	21 base nucleic single linear	_	ر
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:33:	
GAAA	CCCAG	C TGT	AATCATG C	·		21
(2)	INFO	RMATI	ON FOR SEQ ID NO:	34:		
	(i)	SEQU	ENCE CHARACTERIST	CICS:		
		(A) (B) (C)		21 base nucleic single	_	

	(xi)	SEQUEN	CE DESCRIE	MOIT	SEQ ID	NO:34:			
GCATG	SATTAC	AGCTGC	GTTT C				1	1	21
(2)	INFOF	MATION	FOR SEQ II	NO:3	55:				
	(i)	SEQUENC	CE CHARACTE	ERISTI	CS:				
		(B) TY (C) ST	ENGTH: TPE: TRANDEDNESS DPOLOGY:	S:	21 base nucleic single linear	-			
	(xi)	SEQUE	CE DESCRI	PTION:	SEQ ID	NO:35:			
GAAAC	CCAG	UGUAAU	JCAUG C						21
(2)	INFO	NOITAMS	FOR SEQ II	O NO:3	36:				
	(i)	SEQUENC	CE CHARACTI	ERIST	CS:				
		(B) TY	ENGTH: YPE: TRANDEDNESS DPOLOGY:		21 base nucleic single linear	_			
	(xi)	SEQUE	NCE DESCRI	PTION:	SEQ ID	NO:36:			
GCAU	GAUUAC	C AGCUGO	GUUU C						21
(2)	INFO	NOITAMS	FOR SEQ II	O NO:3	37:	•			
	(i)	SEQUEN	CE CHARACTI	ERIST	cs:			•	
		(B) T	ENGTH: YPE: TRANDEDNES: DPOLOGY:	5:	19 base nucleic single linear	_			

	(xi)	SEQU	JENCE DESCRIPTION	: SEQ ID	NO:37:		
GATC	ATCAAG	AACA	CGTAG				19
(2)	INFORM	MATIC	ON FOR SEQ ID NO:	38:			
	(i) S	SEQUE	ENCE CHARACTERIST	ics:			
	` (	(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	19 base nucleic single linear	-		
	(xi)	SEQU	JENCE DESCRIPTION	: SEQ ID	NO:38:		
CTAC	GTGTTC	TTGA	TGATC				19
						1	
(2)	INFORM	MATIC	ON FOR SEQ ID NO:	39:			
	(i) S	SEQUE	NCE CHARACTERIST	ICS:			
	( (	(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	19 base nucleic single linear	<del>-</del>		
	(xi)	SEQU	ENCE DESCRIPTION	: SEQ ID	NO:39:		
GAUC	AUCAAG	AACA	CGUAG				19
(2)	INFORM	MATIC	N FOR SEQ ID NO:4	10:			
-	(i) S	SEQUE	NCE CHARACTERIST	CS:			
	. (	(B) (C)	STRANDEDNESS:	19 base nucleic single linear	_		

	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:40:	•	
CUAC	GUGUU	C UUGAUGAUC		19
(2)	INFO	RMATION FOR SEQ ID NO:41:		
	(i)	SEQUENCE CHARACTERISTICS:		
	•	(A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear		
•	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:41:		
GGAA	CTGAA	C ACTTCACTGC AAGACATAGA AATAACC		37
•			•	
(2)	INFO	RMATION FOR SEQ ID NO:42:		
	(i)	SEQUENCE CHARACTERISTICS:		
		(A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear		
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:42:		
GGTT	ATTTCT	I ATGTCTTGCA GTGAAGTGTT CAGTTCC		37
(2)	INFOR	RMATION FOR SEQ ID NO:43:	1	
,	(i)	SEQUENCE CHARACTERISTICS:	1	
		(A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear		

	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:43:	
GGAA	CUGAA	C ACU	UCACUGC AAGACAUAG	A AAUAACO	2	37
(2)	INFO	RMATI	ON FOR SEQ ID NO:	44:	,	
	(i)	SEQU	ENCE CHARACTERIST	ICS:		
		(C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	37 base nucleic single linear	<del>-</del> .	
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:44:	
GGUU	AUUŲC	U AUG	UCUUGCA GUGAAGUGU	U CAGUUC	c ·	37
(2)	INFO	RMATI	ON FOR SEQ ID NO:	45:		
	(i)	SEQU	ENCE CHARACTERIST	CICS:		
			TYPE: STRANDEDNESS:	31 base nucleic single linear		
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:45:	
GGAA	AAACT	A ACT	AACACTG GGTTATACA	АТ		31
(2)	INFO	RMATI	ON FOR SEQ ID NO:	46:		
	(i)	SEQU	ENCE CHARACTERIST	'ICS:		
		(A) (B) (C)		31 base nucleic single		

	(xi)	SEQU	JENCE DESCRIPTION	: SEQ ID	NO:46:		
ATTGI	TATAAC	CCAC	GTGTTAG TTAGTTTTT	C C			31
(2)	INFOR	OITAMS	ON FOR SEQ ID NO:	47:	·	1	
·	(i)	SEQUE	ENCE CHARACTERIST	ICS:			
		(C)		31 base nucleic single linear			
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:47:		
GGAAZ	AAACUA	A ACU	AACACUG GGUUAUACC	A U			31
(2)	INFOR	TAMS	ON FOR SEQ ID NO:	48:		•	
	(i)	SEQUI	ENCE CHARACTERIST	ICS:			
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	31 base nucleic single linear	_		
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:48:		
AUUG	DAUAU	C CCA	GUGUUAG UUAGUUUUU	C C			31
(2)	INFO	RMATI	ON FOR SEQ ID NO:	49:			
	(i)	SEQU	ENCE CHARACTERIST	ICS:			
			LENGTH: TYPE: STRANDEDNESS:	28 base nucleic single	_		

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	(XI)	SEQU	JENCE DESCRIPTION	SEQ ID	NO:49:	
CATA	TAAAT	A ACC	TGTGTAT ATTGCAAG			28
(2)	INFO	RMATIO	ON FOR SEQ ID NO:	50:		
	(i)	SEQUI	ENCE CHARACTERIST	ics:		
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	28 base nucleic single linear	<del></del>	
	(xi)	SEQ	UENCE DESCRIPTION	SEQ ID	NO:50:	
CTTG	CAATA!	r aca	CAGGTTA TTTCTATG		•	28
					·	
(2)	INFO	RMATIO	ON FOR SEQ ID NO:	51:		
	(i)	SEQUI	ENCE CHARACTERIST	ICS:		
		(B) (C)	TYPE:	28 base nucleic single linear	_	
	(xi)	SEQ	UENCE DESCRIPTION	SEQ ID	NO:51:	
CAUA	GAAAU	A ACC	UGUGUAU AUUGCAAG	·		28
(2)	INFO	RMATI	ON FOR SEQ ID NO:	52:		
	(i)	SEQU	ENCE CHARACTERIST	ICS:		
		(A) (B) (C) (D)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	28 base nucleic single linear	_	

	(xi)	SEQ	UENCE	DESCRIPTION	: SEQ ID	NO:52:		
CUUGO	CAAUAU	JACA	CAGGUT	JA UUUCUAUG				28
(2)	INFOR	ITAMS	ON FOR	R SEQ ID NO:	53:			
	(i)	SEQU	ENCE (	CHARACTERIST	ICS:			
		(B) (C)	TYPE STRAI			acid		
	(xi)	SEQ	UENCE	DESCRIPTION	: SEQ ID	NO:53:		
GACAT	TATT	CAGA	CTCTG	rg tatggag				27
(2)	INFOR	ITAMS	ON FOI	R SEQ ID NO:	54:			
	(i)	SEQU	ENCE (	CHARACTERIST	ICS:			
		(B) (C)	TYPE STRAI	: NDEDNESS:	27 base nucleic single linear	_	·	
	(xi)	SEQ	UENCE	DESCRIPTION	: SEQ ID	NO:54:		
CTCC	ATACA	C AGA	GTCTG	AA TAATGTC				27
(2)	INFO	RMATI	ON FO	R SEQ ID NO:	55:			
	(i)	SEQU	ENCE (	CHARACTERIST	'ICS:		ı	
		(A) (B) (C) (D)			27 base nucleic single linear	_	.	

	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:55:	
GACA	UUAUU	C AGA	CUCUGUG UAUGGAG			2
(2)	INFOR	ITAMS	ON FOR SEQ ID NO:	56:		
	(i)	SEQU	ENCE CHARACTERIST	ICS:		
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:		acid	
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:56:	
CUCCZ	AUACAC	CAGA	GUCUGAA UAAUGUC			27
(2)	INFOR	TAMS	ON FOR SEQ ID NO:	57:		
	(i)	SEQUI	ENCE CHARACTERIST	ICS:		
		(B) (C)				
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:57:	
GCAAG	SACAGI	ATTO	GGAACTT ACAGAG			26
(2)	INFOR	NITAM!	ON FOR SEQ ID NO:	58:	·	
	(i)	SEQUI	ENCE CHARACTERIST	ICS:		
		(A) (B) (C).		26 base nucleic single linear	_	

	(xi)	SEQ	JENCE DE	SCRIPTION	: SEQ ID	NO:58:			
CTCT	GTAAGT	TCC	AATACTG	TCTTGC					26
			•						
						•			
(2)	INFOR	NATIO	ON FOR S	EQ ID NO:	59:				
	(i)	SEQU	ENCE CHA	RACTERIST	ICS:			1	
		(B) (C)					1.		
	(xi)	SEQ	UENCE DE	SCRIPTION	: SEQ ID	NO:59:			
GCAA	GACAGU	J AUU	GGAACUU .	ACAGAG					26
(2)	INFOR	ITAMS	ON FOR S	EQ ID NO:	60:				
	(i)	SEQU	ENCE CHA	RACTERIST	ICS:				
•		(B). (C)	TYPE:	DNESS:	nucleic	_			
	(xi)	SEQ	UENCE DE	SCRIPTION	: SEQ ID	NO:60:			
CUCT	GUAAGU	J UCC	AAUACUG	UCUUGC					26
(2)	INFOR	ITAMS	ON FOR S	EQ ID NO:	61:				
	(i)	SEQU	ENCE CHA	RACTERIST	ICS:				
		(A) (B) (C) (D)	LENGTH: TYPE: STRANDE TOPOLOG		26 base nucleic single linear	_			

	(xi)	SEQUENCE DESCRIPTION	: SEQ ID	NO:61:	
CCTG	rgtat <i>i</i>	A TTGCAAGACA GTATTG			26
(2)	INFO	RMATION FOR SEQ ID NO:	62:		
	(i)	SEQUENCE CHARACTERIST	cs:		
			_	-	
	(xi)	SEQUENCE DESCRIPTION	: SEQ ID	NO:62:	
CAATA	ACTGT	C TTGCAATATA CACAGG			26
(2)	INFO	RMATION FOR SEQ ID NO:	53:		
	(i)	SEQUENCE CHARACTERIST	ics:		
		<ul><li>(B) TYPE:</li><li>(C) STRANDEDNESS:</li></ul>	26 base nucleic single linear	_	
	(xi)	SEQUENCE DESCRIPTION	SEQ ID	NO:63:	
CCUG	JGUAUZ	A UUGCAAGACA GUAUUG			26
(2)	INFO	RMATION FOR SEQ ID NO:	54:		
•	(i)	SEQUENCE CHARACTERIST	cs:		
		(A) LENGTH: (B) TYPE: (C) STRANDEDNESS:	26 base nucleic single	_	

	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:64:		
CAAU	ACUGU	C UUG	CAAUAUA CACAGG	•			26
(2)	INFO	RMATI	ON FOR SEQ ID NO	:65:			
	(i).	SEQU	ENCE CHARACTERIST	rics:			
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	_	_		
	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:65:	,	
GAAC'	TTACA	G AGG	TATTTGA ATTTGC				26
(2)	INFO	RMATI	ON FOR SEQ ID NO	:66:			
	(i)	SEQU	ENCE CHARACTERIS	rics:			
		(B) (C)		26 base nucleic single linear	-		
	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:66:		
GCAA	ATTCA	А АТА	CCTCTGT AAGTTC	,			26
(2)	INFO	RMATI	ON FOR SEQ ID NO	:67:			
	(i)	SEQU	ENCE CHARACTERIST	TICS:			
		(A) (B) (C)	STRANDEDNESS:	26 base nucleic single	-		

	(xi)	SEQUENCE	E DESCRIPTION	: SEQ ID	NO:67:		
GAAC	UUACA	AGGUAUU	JGA AUUUGC				26
•							
(2)	INFO	RMATION FO	OR SEQ ID NO:	68:			
	(i)	SEQUENCE	CHARACTERIST	ICS:			
		(B) TYPE (C) STRA			acid		
	(xi)	SEQUENCI	E DESCRIPTION	: SEQ ID	NO:68:	•	
GCAA	AUUCA	A AUACCUCT	JGU AAGUUC				26
(2)	INFO	RMATION FO	OR SEQ ID NO:	69:			
	(i)	SEQUENCE	CHARACTERIST	ICS:			
					_		
	(xi)	SEQUENC	E DESCRIPTION	: SEQ ID	NO:69:		
CAAC	CGAGC	A CGACAGG	AAC GAC				23
(2)	INFO	RMATION FO	OR SEQ ID NO:	70:			
	(i)	SEQUENCE	CHARACTERIST	ICS:			
		(B) TYPE (C) STRA	ANDEDNESS:	23 base nucleic single linear			

	(xi)	SEQUE	NCE DE	SCRIPTION	: SEQ ID	NO:70:						
GTCGT	TCCTG	TCGTG	CTCGG '	TTG			٠		23			
							•					
(2)	INFOR	MATION	FOR S	EQ ID NO:	71:							
	(i)	SEQUEN	CE CHA	RACTERIST	ICS:							
		(A) LI (B) T (C) S (D) T	YPE: TRANDE	DNESS:	23 base nucleic single linear	_						
	(xi)	SEQUE	NCE DE	SCRIPTION	: SEQ ID	NO:71:						
CAACO	CGAGCA	CGACA	GGAAC (	GAC					23			
						•						
(2)	INFOR	NOITAM	FOR S	EQ ID NO:	72:							
	(i)	NFORMATION FOR SEQ ID NO:72:  i) SEQUENCE CHARACTERISTICS:										
			YPE: TRANDE	DNESS:	23 base nucleic single linear	_						
	(xi)	SEQUE	NCE DE	SCRIPTION	: SEQ ID	NO:72:						
GUCGU	JUCCUG	UCGUG	CUCGG	UUG	·				23			
(2)	INFOR	MATION	FOR S	EQ ID NO:	73:							
	(i)	SEQUEN	CE CHA	RACTERIST	'ICS:							
		(A) Li (B) T (C) S (D) T	TRANDE	DNESS:	23 base nucleic single							

	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:73:		
CCAA	CGACG	C AGA	GAAACAC AAG				23
(2)	INFO	RMATI	ON FOR SEQ ID NO:	74:			
	(i)	SEQU	ENCE CHARACTERIST	CICS:	•		
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:			`	
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:74:		
CTTG	rgttt(	C TCT	GCGTCGT TGG				23
(2)	INFO	RMATI	ON FOR SEQ ID NO:	75:			
	(i)	SEQU	ENCE CHARACTERIST	'ICS:			
		(B) (C)	TYPE: STRANDEDNESS:	23 base nucleic single linear			
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:75:		
CCAA	CGACG	C AGA	GAAACAC AAG				23
(2)	INFO	RMATI	ON FOR SEQ ID NO:	76:	•		
	(i)	SEQU	ENCE CHARACTERIST	ICS:			
		(A) (B) (C)		23 base nucleic single	_		

	(xi)	SEQUENCE DESCRIPTION	N: SEQ ID NO:76:		
CUUGU	IGUUUC	UCUGCGUCGU UGG		23	}
(2)	INFOR	MATION FOR SEQ ID NO	:77:		
	(i)	SEQUENCE CHARACTERIS	rics:		
		<ul><li>(A) LENGTH:</li><li>(B) TYPE:</li><li>(C) STRANDEDNESS:</li><li>(D) TOPOLOGY:</li></ul>	nucleic acid single		
٠	(xi)	SEQUENCE DESCRIPTION	N: SEQ ID NO:77:		
CTTAC	CAGAGO	G TGCCTGCGGT GC		22	?
(2)	INFOR	RMATION FOR SEQ ID NO	:78:		
	(i)	SEQUENCE CHARACTERIS	rics:		
	(xi)	SEQUENCE DESCRIPTIO	N: SEQ ID NO:78:		
GCACO	CGCAGO	G CACCTCTGTA AG		22	2
(2)	INFOR	RMATION FOR SEQ ID NO	: 79 :		
•	(i)	SEQUENCE CHARACTERIS	rics:		
		(A) LENGTH: (B) TYPE: (C) STRANDEDNESS: (D) TOPOLOGY:	22 base pairs nucleic acid single		

	(xi)	SEQUENCE DESCRIPTION	: SEQ ID	NO:79:			
CUUA	CAGAGO	G UGCCUGCGGU GC			22		
			ı				
(2)	INFOR	RMATION FOR SEQ ID NO:	80:				
	(i)	SEQUENCE CHARACTERIST	CICS:				
		<ul><li>(B) TYPE:</li><li>(C) STRANDEDNESS:</li></ul>	22 base nucleic single linear				
	(xi)	SEQUENCE DESCRIPTION	: SEQ ID	NO:80:			
GCAC	CGCAG	G CACCUCUGUA AG		·	22		
(2)	INFO	RMATION FOR SEQ ID NO:	81:				
	(i) SEQUENCE CHARACTERISTICS:						
			_	<del>-</del>			
	(xi)	SEQUENCE DESCRIPTION	: SEQ ID	NO:81:			
GAACT	TACAC	G AGGTGCCTGC GG			22		
(2)	INFOR	RMATION FOR SEQ ID NO:	82:		,		
	(i)	SEQUENCE CHARACTERIST	CICS:				
		(A) LENGTH: (B) TYPE: (C) STRANDEDNESS: (D) TOPOLOGY:	22 base nucleic single linear	_			

	(xi)	SEQ	JENCE DESCRIPTION	: SEQ ID	NO:82:			
CCGC	AGGCA	C CTC	rgtaagt tc				22	
•								
(2)	INFO	NITAMS	ON FOR SEQ ID NO:	33:				
	(i)	SEQUI	ENCE CHARACTERIST	cs:				
		(B)	TYPE: STRANDEDNESS:	22 base nucleic single linear	-	1		
	(xi)	SEQ	JENCE DESCRIPTION	SEQ ID	NO:83:	1		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:83:  GAACUUACAG AGGUGCCUGC GG								
(2)	INFORMATION FOR SEQ ID NO:84:							
	(i)	SEQUE	ENCE CHARACTERIST	ICS:				
		(B) (C)	STRANDEDNESS:	nucleic	_			
	(xi)	SEQU	JENCE DESCRIPTION	: SEQ ID	NO:84:			
CĆGCZ	AGGCA	C CUCT	JGUAAGU UC	•			22	
(2)	INFO	RMATIO	ON FOR SEQ ID NO:8	35:				
	(i)	SEQUE	ENCE CHARACTERIST	ccs:				
		(A) (B) (C) (D)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	21 base nucleic single linear	-			

	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:85:	
CAGGA	CACAC	G TGGCTTTTGA C	21
(2)	INFOR	RMATION FOR SEQ ID NO:86:	
	(i)	SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:86:	
GTCA	AAAGC	C ACTGTGTCCT G	21
(2)	INFO	RMATION FOR SEQ ID NO:87:	
•	(i)	SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:87:	
CAGG	ACACA	.G UGGCUUUUGA C	21
(2)	INFO	RMATION FOR SEQ ID NO:88:	·
	(i)	SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	

	(xi)	SEQ	JENCE	DESCRIPTION	: SEQ ID	NO:88:	
GUCAA	AAGCC	C ACU	GUGUC	CU G			21
(2)	INFOF	)ITAMS	ON FOI	R SEQ ID NO:	89:		
	(i)	SEQUI	ENCE (	CHARACTERIST	ICS:	•	
		(B) (C)	TYPE STRAI	NDEDNESS:	nucleic	_	
	(xi)	SEQ	UENCE	DESCRIPTION	: SEQ ID	NO:89:	
GCTTT	TTGT	C CAG	ATGTC'	TT TGC	•		23
(2)	INFO	TAMS	ON FO	R SEQ ID NO:	90:		
	(i)	SEQU	ENCE (	CHARACTERIST	ICS:		
	·	(B) (C)			23 base nucleic single linear	-	
	(xi)	SEQ	UENCE	DESCRIPTION	: SEQ ID	NO:90:	
GCAAA	AGACA:	r ctg	GACAA	AA AGC			23
(2)	INFO	RMATI	ON FO	R SEQ ID NO:	91:		
	(i)	SEQU	ENCE (	CHARACTERIST	ICS:		
	,	(A) (B) (C) (D)	STRA		23 base nucleic single linear		

	(xi)	SEÇ	QUENCE DESCRIPTION	: SEQ ID	NO:91:	1			
GCUU	บบบููตบ	C CAG	SAUGUCUU UGC			į	23		
						•	•		
(2)	INFO	RMATI	ON FOR SEQ ID NO:	92:	•				
	(i)	SEQU	JENCE CHARACTERIST	CICS:	٠.				
		(B) (C)	·	23 base nucleic single linear	_		, •		
	(xi)	SEÇ	QUENCE DESCRIPTION	: SEQ ID	NO:92:		•		
GCAA	GCAAAGACAU CUGGACAAAA AGC								
(-)									
(2)	INFO	RMATI :	ON FOR SEQ ID NO:	93:					
	(i)	SEQU	JENCE CHARACTERIST	CICS:					
		(B)		23 base nucleic single linear	_				
	(xi)	SEÇ	QUENCE DESCRIPTION	: SEQ ID	NO:93:				
GCAA	TGTAG	G TGI	FATCTCCA TGC				23		
(2)	INFO	RMATI	ON FOR SEQ ID NO:	94:					
	(i)	SEQU	JENCE CHARACTERIST	CICS:					
		(A) (B) (C)	STRANDEDNESS:	23 base nucleic single					

	(xi)	SEQUENCE DESCRIPTION	N: SEQ ID N	O:94:	
GCATO	GAGAT	ACACCTACAC CGC			23
(2)	INFOR	MATION FOR SEQ ID NO	:95:		
	(i)	SEQUENCE CHARACTERIS	TICS:	•	
		<ul><li>(A) LENGTH:</li><li>(B) TYPE:</li><li>(C) STRANDEDNESS:</li><li>(D) TOPOLOGY:</li></ul>	23 base p nucleic a single linear	•	
	(xi)	SEQUENCE DESCRIPTION	N: SEQ ID N	O:95:	
GCAAI	JGUAGO	UGUAUCUCCA UGC		ı	23
(2)	INFOR	MATION FOR SEQ ID NO	:96:		
	(i)	SEQUENCE CHARACTERIS	TICS:		
		<ul><li>(A) LENGTH:</li><li>(B) TYPE:</li><li>(C) STRANDEDNESS:</li><li>(D) TOPOLOGY:</li></ul>	23 base p nucleic a single linear		
	(xi)	SEQUENCE DESCRIPTION	N: SEQ ID N	O:96:	
GCAU	GAGAU	ACACCUACAC CGC			23
(2)	INFOR	MATION FOR SEQ ID NO	:97:		
	(i)	SEQUENCE CHARACTERIS	TICS:		
		<ul><li>(A) LENGTH:</li><li>(B) TYPE:</li><li>(C) STRANDEDNESS:</li><li>(D) TOPOLOGY:</li></ul>	27 base p nucleic a single linear		

	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:97:		
AATT	TAATA(	C GAC	TCACTAT AGGGAGA				27
	•						
(2)	INFO	RMATI	ON FOR SEQ ID NO:	98:			
	(i)	SEQU	ENCE CHARACTERIST	'ICS:			
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	nucleic single	pairs acid		
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:98:		
TCTC	CCTAT	A GTG	AGTCGTA TTAAATT			•	. 27
(2)	INFO	RMATI	ON FOR SEQ ID NO:	99:			
	(i)	SEQU	ENCE CHARACTERIST	CICS:			
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	nucleic single	acid	·	
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:99:		
UUAA	AUAAU	C GAC	UCACUAU AGGGAGA				27
(2)	INFO	RMATI	ON FOR SEQ ID NO:	100:			
	(i)	SEQU	ENCE CHARACTERIST	CICS:			
		(A) (B) (C)	LENGTH: TYPE: STRANDEDNESS:	27 base nucleic single			

	(xi)	SEQ	UENCE	DESCRIPTION	ON: SEQ I	D NO:100:		
UCUC	CCUAU	A GUG	AGUCG	UUAAAUU AU				27
					•			
(2)	INFO	RMATI	ON FO	R SEQ ID N	0:101:			
	(i)	SEQU	ENCE	CHARACTERI	STICS:			
		(B) (C)	TYPE STRAI	TH: : NDEDNESS: LOGY:	nuclei single	c acid		
	(xi)	SEQ	UENCE	DESCRIPTI	ON: SEQ I	D NO:101:		
TCGT	TTTTC	A TTA	AGGTG'	TC TAAGTTT	TTC TGCTG	GATTC		40
(2)	INFO	RMATI	ON FO	R SEQ ID N	0:102:			
	INFORMATION FOR SEQ ID NO:102:  (i) SEQUENCE CHARACTERISTICS:							
		(B) (C)	TYPE STRA		_	c acid		
	(xi)	SEÇ	UENCE	DESCRIPTI	ON: SEQ I	D NO:102:		
GAAT	CCAGC	A GAA	AAACT	TA GACACCT	TAA TGAAA	AACGA		40
(2)	INFO	RMATI	ON FO	R SEQ ID N	0:103:			·
	(i)	SEQU	ENCE	CHARACTERI	STICS:			
		(A) (B) (C) (D)	STRA					

	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:103:		
UCGUT	JUUUC	A UUA	AGGUGUC UAAGUUUUU	C UGCUGG	AUUC		40
(2)	INFO	RMATI	ON FOR SEQ ID NO:	104:			
	(i)	SEQU	ENCE CHARACTERIST	ICS:			
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	nucleic single	-		
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:104:		
GAAUCCAGCA GAAAAACUUA GACACCUUAA UGAAAAACGA							
	,	٩					
(2)	INFO	RMATI	ON FOR SEQ ID NO:	105:			•
	INFORMATION FOR SEQ ID NO:105:  (i) SEQUENCE CHARACTERISTICS:						
		(B) (C)		23 base nucleic single linear	_		
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:105:		
GCAAT	rgttg	C CTT	AGGTCCA TGC				23
(2)	INFO	RMATI	ON FOR SEQ ID NO:	106:			
	(i)	SEQU	ENCE CHARACTERIST	ICS:			
		(A) (B) (C) (D)	STRANDEDNESS:	23 base nucleic single linear	_		

	(xi)	SEQU	ENCE	DESCRIPTION	: SEQ ID	NO:106:		
GCATO	GACCI	AAGG	CAAC	AT TGC				23
(2)	INFOR	MATIO	N FOR	R SEQ ID NO:	107:			
	(i)	SEQUE	NCE (	CHARACTERIST	ICS:			
		(B)	TYPE : STRAI					
	(xi)	SEQU	ENCE	DESCRIPTION	: SEQ ID	NO:107:		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:107:  GCAAUGUUGC CUUAGGUCCA UGC								
							1	
(2)	INFOR	CITAMS	N FOR	R SEQ ID NO:	108:			
	INFORMATION FOR SEQ ID NO:108:  (i) SEQUENCE CHARACTERISTICS:							
		(B) (C)	TYPE : STRAI	TH: : NDEDNESS: LOGY:	nucleic	_		
	(xi)	SEQU	ENCE	DESCRIPTION	SEQ ID	NO:108:		
GCAUG	GACCU	J AAGG	CAAC	ÀU UGC				23
(2)	INFOR	MATIO	N FOR	R SEQ ID NO:	109:			
	(i)	SEQUE	NCE (	CHARACTERIST:	rcs:			
	٠	(B) (C)			22 base nucleic single linear	-		•

	(xi)	SEQU	JENCE	DESCRIPTION	: SEQ ID	NO:109:		
CGGTT	TTCTGG	G CACC	CGCAGO	GC AC				22
(2)	INFOR	CITAMS	ON FOR	R SEQ ID NO:	110:			
	(i)	SEQUE	ENCE (	CHARACTERIST:	ICS:			
		(B) (C)	TYPE:	TH: IDEDNESS: LOGY:	nucleic single			
	(xi)	SEQU	JENCE	DESCRIPTION	: SEQ ID	NO:110:		
GTGC	CTGCGG	G TGCC	CAGAAZ	AC CG				22
(2)	INFOR	RMATIC	ON FOR	R SEQ ID NO:	111:			,
	(i)	SEQUE	ENCE C	CHARACTERIST	ics:			
		(B) (C)	TYPE:	TH: : : : : : : : : : : : : : : : : : :	nucleic	=		
	(xi)	SEQU	JENCE	DESCRIPTION	: SEQ ID	NO:111:		
CGGUT	JUCUGO	G CACC	CGCAGO	GC AC				22
(2)	INFOR	RMATIC	ON FOR	R SEQ ID NO:	112:		1	
	(i) SEQUENCE CHARACTERISTICS:						1	
		(A) (B) (C) (D)	LENGT TYPE: STRAN TOPOI	DEDNESS:	22 base nucleic single linear	_		

	(xi)	SEQUENCE DESCRIPTION	: SEQ ID	NO:112:		
GUGC	CUGCGG	UGCCAGAAAC CG			•	22
(2)	INFOR	MATION FOR SEQ ID NO:	113:			
	(i)	SEQUENCE CHARACTERIST	ICS:			
		<ul><li>(A) LENGTH:</li><li>(B) TYPE:</li><li>(C) STRANDEDNESS:</li><li>(D) TOPOLOGY:</li></ul>		_		
	(xi)	SEQUENCE DESCRIPTION	: SEQ ID	NO:113:		
GCAAT	rgTAGC	C CGTATGTCCA TGC				23
		•				
(2)	INFOR	MATION FOR SEQ ID NO:	114:			
	(i) SEQUENCE CHARACTERISTICS:					
		<ul><li>(A) LENGTH:</li><li>(B) TYPE:</li><li>(C) STRANDEDNESS:</li><li>(D) TOPOLOGY:</li></ul>	23 base nucleic single linear	_		
	(xi)	SEQUENCE DESCRIPTION	: SEQ ID	NO:114:		
GCATO	GACAT	ACGGCTACAT TGC				23
(2)	INFOR	MATION FOR SEQ ID NO:	115:			
	(i)	SEQUENCE CHARACTERIST	ICS:			
		<ul><li>(A) LENGTH:</li><li>(B) TYPE:</li><li>(C) STRANDEDNESS:</li><li>(D) TOPOLOGY:</li></ul>	23 base nucleic single linear	-		

	(xi)	SEQUENCE DESCRIPTION	N: SEQ ID NO:115:				
GCAAU	JGUAGO	C CGUAUGUCCA UGC	ì		23		
(2)	INFOR	RMATION FOR SEQ ID NO:	:116:				
	(i)	SEQUENCE CHARACTERIST	rics:				
		(A) LENGTH: (B) TYPE: (C) STRANDEDNESS: (D) TOPOLOGY:	23 base pairs nucleic acid single linear				
	(xi)	SEQUENCE DESCRIPTION	N: SEQ ID NO:116:		•		
GCAUC	GACAU	J ACGGCUACAU UGC			23		
		-					
(2)	INFORMATION FOR SEQ ID NO:117:						
	(i) SEQUENCE CHARACTERISTICS:						
		<ul><li>(A) LENGTH:</li><li>(B) TYPE:</li><li>(C) STRANDEDNESS:</li><li>(D) TOPOLOGY:</li></ul>	_				
	(xi)	SEQUENCE DESCRIPTION	N: SEQ ID NO:117:				
CACTI	CACTO	G CAAGACATAG AAATAACCT	rg tgtatatt		38		
(2)	INFOR	RMATION FOR SEQ ID NO:	118:				
	(i)	SEQUENCE CHARACTERIST	TICS:				
		(A) LENGTH: (B) TYPE: (C) STRANDEDNESS:	38 base pairs nucleic acid single				

	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:118:		
AATA	TACAC	A GGT	TATTTCT ATGTCTTGC	A GTGAAG	TG		38
(2)	INFO	RMATI	ON FOR SEQ ID NO:	119:			
•	(i)	SEQU	ENCE CHARACTERIST	ics:			
		(B) (C)			_		
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:119:		
CACU	UCACU	G CAA	GACAUAG AAAUAACCU	G UGUAUA	ໜ		38
(2)	INFO	RMATI	ON FOR SEQ ID NO:	120:			
	(i) SEQUENCE CHARACTERISTICS:						
	·	(B) (C)		38 base nucleic single linear	-	•	•
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:120:		
AAUAU	JACAC	A GGU	UAUUUCU AUGUCUUGC	'A GUGAAGI	IJĠ	1	38
(2)	INFO	TAMS	ON FOR SEQ ID NO:	121:			
	(i)	SEQU	ENCE CHARACTERIST	ICS:			
		(C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	32 base nucleic single	_		

	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:121:					
TTAT	TAATA	A GGTGCCTGCG GTGCCAGAAA CC		32			
(2)	INFO	ORMATION FOR SEQ ID NO:122:					
	(i)	SEQUENCE CHARACTERISTICS:					
		(A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear					
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:122:					
GGTT	rctgg:	C ACCGCAGGCA CCTTATTAAT AA	3	2			
(2)	INFO	RMATION FOR SEQ ID NO:123:					
	(i) SEQUENCE CHARACTERISTICS:						
		(A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear					
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:123:					
UUAUU	JAAUA	A GGUGCCUGCG GUGCCAGAAA CC		32			
(2)	INFO	RMATION FOR SEQ ID NO:124:					
	(i)	SEQUENCE CHARACTERISTICS:					
		(A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single					

	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:124:		
GGUUT	JCUGG	C ACC	GCAGGCA CCUUAUUA	AA UA			32
(2)	INFO	RMATI	ON FOR SEQ ID NO	:125:			
	(i)	SEQU:	ENCE CHARACTERIS	rics:			**
		(B) (C)	TYPE: STRANDEDNESS:	23 base nucleic single linear	<del></del>		
	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:125:		
GACT	CTGTGT	r ATG	GAGACAC ATT			•	23
(2)	INFO	RMATI	ON FOR SEQ ID NO	:126:			
	(i) SEQUENCE CHARACTERISTICS:						
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	23 base nucleic single linear	<b>-</b>		
	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:126:		
AATG	rgtct	C CAT	ACACAGA GTC			·	23
(2)	INFOR	TAMS	ON FOR SEQ ID NO	:127:			
	(i)	SEQUI	ENCE CHARACTERIST	TICS:		•	
		(A) (B) (C)	STRANDEDNESS:	23 base nucleic single	-		

GACU	CUGUG	U AUG	GGAGACAC AUU			23	
(2)	(2) INFORMATION FOR SEQ ID NO:128:						
	(i) SEQUENCE CHARACTERISTICS:						
		(A) (B) (C) (D)	STRANDEDNESS:	23 base pairs nucleic acid single linear			
	(xi)	SEÇ	QUENCE DESCRIPTIO	N: SEQ ID NO:128:			
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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:127: